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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/080,274	02/19/2002	Jianming Xiao	473532000620	7914
	90 08/26/2004		EXAM	INER
ANTHONY C. CHEN, ESQ EXECUTIVE VICE PRESIDENT, CHEIF BUSINES OFFICER			CELSA, BENNETT M	
GENOSPECTR	A,INC	DOSINES OFFICER	ART UNIT	PAPER NUMBER
6519 DUMBAR FREMONT, CA		1639		
,			DATE MAIL CD. 09/26/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/080,274	XIAO ET AL.	
omoc Addon Guillinary	Examiner	Art Unit	
The MAILING DATE of this	Bennett Celsa	1639	
The MAILING DATE of this communication app Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tir y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from	mely filed /s will be considered timely. the mailing date of this communicatio	n.
Status			
1) Responsive to communication(s) filed on			
	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is	5
closed in accordance with the practice under E			
Disposition of Claims			
4)⊠ Claim(s) <u>1-62</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	n from consideration		
5) Claim(s) is/are allowed.	m nom consideration.		
6) Claim(s) is/are rejected.			
7) Claim(s) is/are objected to.			
8)⊠ Claim(s) <u>1-62</u> are subject to restriction and/or e	lection requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner			
10) The drawing(s) filed on is/are: a) acce		- - - - - -	
Applicant may not request that any objection to the d			
Replacement drawing sheet(s) including the correction			١.
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.	,
Priority under 35 U.S.C. § 119			
-	anianih da . 05 H O O . 0 4404)	(1)	
12) Acknowledgment is made of a claim for foreign part a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents	have been received		
2. Certified copies of the priority documents		an No	
3. Copies of the certified copies of the priorit	ly documents have been received	d in this National Stage	
application from the International Bureau	(PCT Rule 17.2(a)).	ant uno redional olage	
* See the attached detailed Office action for a list o		d.	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)		
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa 6) Other:		
	, <u> </u>		

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DETAILED ACTION

Status of the Claims

Claims 1-62 are currently pending.

Election/Restriction

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
- Claims 1-27, drawn to a composition comprising a channeled substrate
 (e.g. bundled capillary tubes), classified in class 385, subclass 68+
- II. Claims 28-34, drawn to a probe library, classified in class 435, subclass 4+
- III. Claims 35-38, drawn to kit comprising a channeled substrate, a fluid delivery system and a detector, classified in classes 422, subclass 100+
- IV. Claims 39-49, drawn to an etching method of forming a channeled substrate, classified in class 216, subclass 2+.
- V. Claims 50-54, drawn to a method of metering a volume of liquid, classified in class 73, subclass 1.02+.
- VI. Claims 55-62, drawn to a biospecific ligand binding assay, classified in class 436, subclass 501.

The inventions are distinct, each from the other because of the following reasons:

1. Inventions IV and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the

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present instance, the process as claimed can be used to make other and materially different product such as computer and electronic devices and/or the product as claimed can be made by another and materially different process e.g. use of stamping, imprinting, sputtering or by physical means.

- 2. Inventions I and III are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as to make other products including but not limited to semiconducor, electonic and computer devices. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 3. Inventions I and II are drawn to independent and/or patentably distinct compositions which differ in structure and/or biological/chemical properties and which are capable of separate manufacture and/or use and additionally are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects and require different and separately burdensome manual/computer structure, bibliographic and classification searches.

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a rejection under 35 U.S.C. 103(a) of the other invention.

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4. Inventions III and IV are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as probes and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner

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5. Inventions I-III as compared to Inventions IV-VI are independent and/or patentably distinct invention since they are drawn to different statutory class of invention and have different modes of operation, different functions, or different effects. Additionally, in the instant case the different inventions require different and separately burdensome manual/computer structure, bibliographic and classification searches.

finds one of the inventions anticipated by the prior art, the evidence or admission may be used in

6. Inventions IV-VI are drawn to independent and/or patentably distinct inventios since these inventions are directed to methods which have different method objectives, different method steps, require different reaction conditions and/or parameters and are interdependent upon each other and additionally are separately classifiable.

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7. Because these inventions are distinct for the reasons given above and:

- a. have acquired a separate status in the art as shown by their different classification; and/or
- b. require different and separately burdensome searches
 (bibliographic/structure/classification) and examination (e.g. a reference against one invention not applicable against the other invention and different 35 USC 112 issues);
 and/or
- c. these inventions have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and a product claim is subsequently found allowable, withdrawn process claims that depend from or otherwise include all the limitations of the allowable product claim will be rejoined in accordance with the provisions of MPEP § 821.04. Process claims that depend from or otherwise include all the limitations of the patentable product will be entered as a matter of right if the amendment is presented prior to final rejection or allowance, whichever is earlier. Amendments submitted after final rejection are governed by 37 CFR 1.116; amendments submitted after allowance are governed by 37 CFR 1.312.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103, and 112. Until an elected product claim is found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowed product claim will not be rejoined. See "Guidance on Treatment of Product and Process Claims in light of *In re Ochiai, In re Brouwer* and 35 U.S.C. § 103(b)," 1184 O.G. 86 (March 26, 1996). Additionally, in order to retain the right to rejoinder in accordance with the above policy, Applicant is advised that the process claims should be amended during prosecution either to maintain

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dependency on the product claims or to otherwise include the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Election of Species (Group II only):

8. This application contains claims directed to the following patentably distinct probe species of the claimed invention:

See Markush species of claims 30-31 which include generic classes (E.g. nucleic acids, polysaccharides, peptides, proteins) as well as individual species (E.g. EGFR).

The above "probes" encompass compounds which represent independent and/or patentably distinct inventions which require different and separately burdensome manual/computer formula/classification (e.g. class 530 for proteins; class 536 for nucleic acids) due to different compound structure (e.g. core structure) and/or function which are capable of different manufacture and/or use.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Applicant is advised that a reply to this requirement must include an identification of the species (e.g. single compound) that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

9. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bennett Celsa whose telephone number is 571-272-0807. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on 571-273-0811. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bennett Celsa Primary Examiner Art Unit 1639

BC August 20, 2004 Mult of